

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	986	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/22 20:05
S2	410	S1 and (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/22 20:14
S3	49	S1 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/22 20:14
S4	26	S3 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/22 20:15
S5	986	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/22 21:48
S6	49	S5 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/22 21:48
S7	26	S6 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/22 21:48
S8	986	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/22 23:21
S9	49	S8 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/22 23:21
S10	26	S9 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/22 23:21
S11	23	S9 not S10	US-PGPUB; USPAT	OR	ON	2008/03/22 23:21
S12	410	S8 and (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/22 23:24
S13	23	S12 not S11	US-PGPUB; USPAT	OR	ON	2008/03/22 23:24
S14	387	S12 not S11	US-PGPUB; USPAT	OR	ON	2008/03/22 23:24
S15	305	S14 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/22 23:24

S16	801	(microspot or microarray or spot or array) with (channel or microchannel) with (around or circumference)	US-PGPUB; USPAT	OR	ON	2008/03/26 11:29
S17	180	((microspot or microarray or spot or array) with (channel or microchannel) with (around or circumference)) and (molecule or biomolecule or dna or nucleic or protein or antibody or enzyme)	US-PGPUB; USPAT	OR	ON	2008/03/26 11:29
S18	145	S17 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/26 11:30
S19	1096	((mountable or mounting) with ((flow adj cell) or channel)) and (assay or biological or molecule or antibody or dna or nucleic or enzyme or peptide)	US-PGPUB; USPAT	OR	ON	2008/03/26 15:29
S20	782	S19 not @ay> "2003"	US-PGPUB; USPAT	OR	ON	2008/03/26 15:30
S21	46	((mountable) with ((flow adj cell) or channel)) and (assay or biological or molecule or antibody or dna or nucleic or enzyme or peptide)	US-PGPUB; USPAT	OR	ON	2008/03/26 15:31
S22	39	S21 not @ay> "2003"	US-PGPUB; USPAT	OR	ON	2008/03/26 15:31
S23	987	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S24	410	S23 and (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S25	49	S23 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S26	26	S25 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S27	987	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S28	49	S27 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45

S29	26	S28 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S30	987	(determining or determine or detect or detecting) with kinetic with binding	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S31	49	S30 and ((channel or microchannel) with (spot or microspot or array or microarray))	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S32	26	S31 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S33	23	S31 not S32	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S34	410	S30 and (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S35	23	!S33	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S36	387	S34 not S33	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S37	305	S36 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S38	801	(microspot or microarray or spot or array) with (channel or microchannel) with (around or circumference)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S39	180	((microspot or microarray or spot or array) with (channel or microchannel) with (around or circumference)) and (molecule or biomolecule or dna or nucleic or protein or antibody or enzyme)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S40	145	S39 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S41	1096	((mountable or mounting) with ((flow adj cell) or channel)) and (assay or biological or molecule or antibody or dna or nucleic or enzyme or peptide)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S42	782	S41 not @ay> "2003"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45

S43	46	((mountable) with ((flow adj cell) or channel)) and (assay or biological or molecule or antibody or dna or nucleic or enzyme or peptide)	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S44	39	S43 not @ay> "2003"	US-PGPUB; USPAT	OR	ON	2008/03/29 20:45
S45	8499	removable with (channel or (flow adj cell))	US-PGPUB; USPAT	OR	ON	2008/03/29 21:01
S46	7350	S45 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 21:01
S47	566	S46 and (absorb or immobilize or immobilizing or functionalizing)	US-PGPUB; USPAT	OR	ON	2008/03/29 21:01
S48	67	S46 and ((absorb or immobilize or immobilizing or functionalizing) same (molecule or probe or dna or protein or enzyme or antibody))	US-PGPUB; USPAT	OR	ON	2008/03/29 21:02
S49	67	S48 not S43	US-PGPUB; USPAT	OR	ON	2008/03/29 21:02
S50	2054	((microarray or array) with (formation or making)) same channel	US-PGPUB; USPAT	OR	ON	2008/03/29 21:15
S51	1551	S50 not @ay> "2003"	US-PGPUB; USPAT	OR	ON	2008/03/29 21:16
S52	1010	((microarray or array) with (formation or making)) with channel	US-PGPUB; USPAT	OR	ON	2008/03/29 21:16
S53	4	((microarray or array) with (formation or making)) with (channel with (immobilizing or absorbing or activation or functionalizing))	US-PGPUB; USPAT	OR	ON	2008/03/29 21:17
S54	442	((microarray or array) with (formation or making)) and (channel with (immobilizing or absorbing or activation or functionalizing))	US-PGPUB; USPAT	OR	ON	2008/03/29 21:17
S55	345	S54 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2008/03/29 21:17
S56	5034	(forming with (array or microarray)) same (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/30 22:53

S57	39	((immobilizing or functionalizing or functionalization) with (array or microarray)) same (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/30 22:53
S58	13	(activating with (immobilizing or immobilization or functionalizing or functionalization)) same (microspot or array or microarray)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:04
S59	0	(activating with (immobilizing or immobilization or functionalizing or functionalization)) same (microspot or array or microarray) with (electric or electrical or current)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:04
S60	2603210	((immobilizing or immobilization or functionalizing or functionalization) with (microspot or array or microarray) with electric or electrical or current)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:05
S61	55	(immobilizing or immobilization or functionalizing or functionalization) with (microspot or array or microarray) with (electric or electrical or current)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:06
S62	48	S61 and (biomolecule or molecule or probe or protein or dna or nucleic or antibody)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:06
S63	30	S62 and (channel or microchannel)	US-PGPUB; USPAT	OR	ON	2008/03/30 23:07
S64	18	S62 not S63	US-PGPUB; USPAT	OR	ON	2008/03/30 23:14
S65	102	microfluidic and (immobilized with probes with (channel or microchannel))	US-PGPUB; USPAT	OR	ON	2008/03/30 23:24
S66	16	S65 and ((electrophoretic or dielectrophoresis or electrophoresis) with (pumping or pump))	US-PGPUB; USPAT	OR	ON	2008/03/30 23:25

S67	1	("6200814").PN.	USPAT; USOCR	OR	OFF	2008/03/30 23:31
S68	0	(prevent with nonspecific with absorption) with (array or microarray)	USPAT	OR	OFF	2008/03/30 23:34
S69	3	(prevent with nonspecific with absorption) and (array or microarray)	USPAT	OR	OFF	2008/03/30 23:34
S70	1	((nonspecific with absorption) with (avidin or streptavidin)) and (array or microarray)	USPAT	OR	OFF	2008/03/30 23:36
S71	1	((nonspecific with absorption) with (avidin or streptavidin)) and immobilization	USPAT	OR	OFF	2008/03/30 23:38
S72	4	((nonspecific with absorption) with (avidin or streptavidin))	USPAT	OR	OFF	2008/03/30 23:38
S73	3	S72 not S71	USPAT	OR	OFF	2008/03/30 23:38
S74	3	((nonspecific with absorption) with coating) and immobilization	USPAT	OR	OFF	2008/03/30 23:40
S75	18	((nonspecific with (absorption or adsorption)) with coating) and immobilization	USPAT	OR	OFF	2008/03/30 23:40
S76	18	S75 not S73	USPAT	OR	OFF	2008/03/30 23:40
S77	306	((surface adj plasmon adj resonance) or spr) and ((reflectance or (phase adj change) or angle or wavelength) with binding)	USPAT	OR	OFF	2008/03/31 00:32
S78	30	((surface adj plasmon adj resonance) or spr) and ((reflectance or (phase adj change) or angle or wavelength) with binding with detection)	USPAT	OR	OFF	2008/03/31 00:32
S79	1622	assay with ((dissociation or association or affinity) adj constant)	US-PGPUB; USPAT	OR	ON	2008/03/31 00:46
S80	219	assay with ((dissociation or association or affinity) adj constant) with (determining or determine)	US-PGPUB; USPAT	OR	ON	2008/03/31 00:47

S81	68	(oxidation or reducton) with (functional adj group) with (binding or immobilization or immobilizing)	US-PGPUB; USPAT	OR	ON	2008/03/31 01:54
S82	71	(oxidation or reducton) with (functional adj group) with (functionalizing or binding or immobilization or immobilizing)	US-PGPUB; USPAT	OR	ON	2008/03/31 01:57
S83	19	S82 and (electric)	US-PGPUB; USPAT	OR	ON	2008/03/31 01:57
S84	25	S82 and (electric or electrode)	US-PGPUB; USPAT	OR	ON	2008/03/31 01:57
S85	152	(electrode or electric) with (functional adj group) with (functionalizing or binding or immobilization or immobilizing)	US-PGPUB; USPAT	OR	ON	2008/03/31 02:01
S86	152	(electrode or electric) with (functional adj group) with (functionalizing or binding or immobilization or immobilizing) with (molecule or probe or chemical or group)	US-PGPUB; USPAT	OR	ON	2008/03/31 02:02
S87	444	(electric adj field) with ((functional adj group) or (functionalizing or binding or immobilization or immobilizing) with (molecule or probe or chemical or group))	US-PGPUB; USPAT	OR	ON	2008/03/31 02:09
S88	240	(electric adj field) with ((functional adj group) or (functionalizing or immobilization or immobilizing) with (molecule or probe or chemical or group))	US-PGPUB; USPAT	OR	ON	2008/03/31 02:09
S89	5	(electric adj field) with (inducing or induce) with ((functional adj group) or (functionalizing or immobilization or immobilizing) with (molecule or probe or chemical or group))	US-PGPUB; USPAT	OR	ON	2008/03/31 02:09
S90	111	(electric adj field) with (inducing or induce) with reaction	US-PGPUB; USPAT	OR	ON	2008/03/31 02:13

S91	31	(electric adj field) with (inducing or induce) with reaction with chemical	US-PGPUB; USPAT	OR	ON	2008/03/31 02:13
S92	0	(reference adj data) same (interspot)	US-PGPUB; USPAT	OR	ON	2008/11/04 22:58
S93	20	(reference adj data) same (between with spots)	US-PGPUB; USPAT	OR	ON	2008/11/04 22:59
S94	162	(reference adj spots) and (assay or immunoassay)	US-PGPUB; USPAT	OR	ON	2008/11/04 23:17
S95	16	S94 and microfluidic	US-PGPUB; USPAT	OR	ON	2008/11/04 23:17
S96	12267	((activate or activated or activating) with (chemical or chemically)) and (assay or immunoassay or microarray)	US-PGPUB; USPAT	OR	ON	2008/11/04 23:43
S97	56	((((activate or activated or activating) with (chemical or chemically)) same (microfluidic or microchannel)) and (assay or immunoassay or microarray)	US-PGPUB; USPAT	OR	ON	2008/11/04 23:43
S98	56	((((activate or activated or activating) with (chemical or chemically)) same (microfluidic or microchannel)) and (assay or immunoassay or microarray)	US-PGPUB; USPAT	OR	ON	2008/11/05 20:55
S99	162	(reference adj spots) and (assay or immunoassay)	US-PGPUB; USPAT	OR	ON	2008/11/05 20:56
S100	16	S99 and microfluidic	US-PGPUB; USPAT	OR	ON	2008/11/05 20:56
S101	1	("6200814").PN.	USPAT; USOCR	OR	OFF	2008/11/05 22:08
S102	0	kinetic with (measurement) with without with regeneration	US-PGPUB; USPAT	OR	ON	2008/11/05 22:48
S103	4	kinetic with (measurement) with regeneration	US-PGPUB; USPAT	OR	ON	2008/11/05 22:48
S104	1	("6193864").PN.	USPAT; USOCR	OR	OFF	2009/08/01 23:40
S105	1	("6348156").PN.	USPAT; USOCR	OR	OFF	2009/08/01 23:44
S106	1	"20020091057"	US-PGPUB; USPAT	OR	OFF	2009/08/02 17:14



S107	1	("6193864").PN.	USPAT; USOCR	OR	OFF	2009/08/02 19:56
S108	1	("4668399").PN.	USPAT; USOCR	OR	OFF	2009/08/02 20:27
S110	6025	((multiple or plurality) with filters) same (cells or proteins or solutes)	US-PGPUB; USPAT	OR	ON	2009/08/02 20:30
S111	85	((multiple or plurality) with filters) same (red adj blood adj cells)	US-PGPUB; USPAT	OR	ON	2009/08/02 20:31
S112	75	S111 not @ay> "2005"	US-PGPUB; USPAT	OR	ON	2009/08/02 20:31
S113	13	((multiple or plurality) adj2 filters) same (red adj blood adj cells)	US-PGPUB; USPAT	OR	ON	2009/08/02 20:33
S114	12	S113 not @ay> "2005"	US-PGPUB; USPAT	OR	ON	2009/08/02 20:33
S115	63	S112 not S114	US-PGPUB; USPAT	OR	ON	2009/08/02 20:39
S116	1	("4596657").PN.	USPAT; USOCR	OR	OFF	2009/08/02 21:07
S117	1	S116 and filter	USPAT	OR	OFF	2009/08/02 21:07
S118	105	"4810378"	USPAT	OR	OFF	2009/08/02 21:09
S119	1	("4810378").PN.	USPAT; USOCR	OR	OFF	2009/08/02 21:10
S120	0	("L13andfilter").PN.	USPAT; USOCR	OR	OFF	2009/08/02 21:10
S121	1	S119 and filter	USPAT	OR	OFF	2009/08/02 21:10
S122	90	"5089146"	USPAT	OR	OFF	2009/08/02 21:15
S123	1	("5089146").PN.	USPAT; USOCR	OR	OFF	2009/08/02 21:15
S124	1	S123 and filter	USPAT	OR	OFF	2009/08/02 21:16
S125	1280	((multiple or plurality) adj2 filters) same (cells or proteins or solutes)	US-PGPUB; USPAT	OR	ON	2009/08/02 21:18
S126	1052	S125 not @ay> "2005"	US-PGPUB; USPAT	OR	ON	2009/08/02 21:19
S127	1051	S126 not S115	US-PGPUB; USPAT	OR	ON	2009/08/02 21:19
S128	662	((multiple or plurality) adj2 filters) with (cells or proteins or solutes)	US-PGPUB; USPAT	OR	ON	2009/08/02 21:19

S129	559	S128 not @ay> "2005"	US-PGPUB; USPAT	OR	ON	2009/08/02 21:19
S130	558	S129 not S115	US-PGPUB; USPAT	OR	ON	2009/08/02 21:20
S131	81	(additional adj filters) with (cells or proteins or solutes)	US-PGPUB; USPAT	OR	ON	2009/08/02 21:38
S132	66	S131 not @ay> "2005"	US-PGPUB; USPAT	OR	ON	2009/08/02 21:38
S133	66	S132 not S115	US-PGPUB; USPAT	OR	ON	2009/08/02 21:38
S134	515	S130 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2009/08/02 21:57
S135	508	S134 not S133	US-PGPUB; USPAT	OR	ON	2009/08/02 21:58
S136	91	S135 and (plasma or biological)	US-PGPUB; USPAT	OR	ON	2009/08/02 22:00
S137	103	S135 and (plasma or biological or blood)	US-PGPUB; USPAT	OR	ON	2009/08/02 22:00
S138	99	(cascade adj filtration) and (plasma or blood)	US-PGPUB; USPAT	OR	ON	2009/08/02 22:51
S139	1	S138 and (closed with circuit)	US-PGPUB; USPAT	OR	ON	2009/08/02 22:51
S140	1	("5605627").PN.	USPAT; USOCR	OR	OFF	2009/08/02 23:07
S141	0	("I34andfilter").PN.	USPAT; USOCR	OR	OFF	2009/08/02 23:08
S142	1	S140 and filter	USPAT	OR	OFF	2009/08/02 23:08
S143	10095	((cell or plasma) with (separation or fractionation)) and filters	US-PGPUB; USPAT	OR	OFF	2009/08/02 23:34
S144	2	((cell or plasma) with (separation or fractionation)) and (successive adj filters)	US-PGPUB; USPAT	OR	OFF	2009/08/02 23:34
S145	180	((pump or pumping) same (roller with membrane)) and (assay or biological or protein or molecule or biomolecule)	US-PGPUB; USPAT	OR	ON	2009/08/03 03:11
S146	124	S145 not @ay> "2004"	US-PGPUB; USPAT	OR	ON	2009/08/03 03:11
S147	1	("6348156").PN.	USPAT; USOCR	OR	OFF	2009/08/03 06:01
S148	1	(permeation adj ratio) same (microglobulin with albumin)	US-PGPUB; USPAT	OR	ON	2009/08/03 10:07

S149	0	filter with (microglobulin with albumin)	US-PGPUB; USPAT	OR	ON	2009/08/03 10:08
S150	50	(filter or filtering or separate or separating or remove or removal or removing) same (microglobulin with albumin)	US-PGPUB; USPAT	OR	ON	2009/08/03 10:08

**12/ 2/ 2009 11:11:51 PM**

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